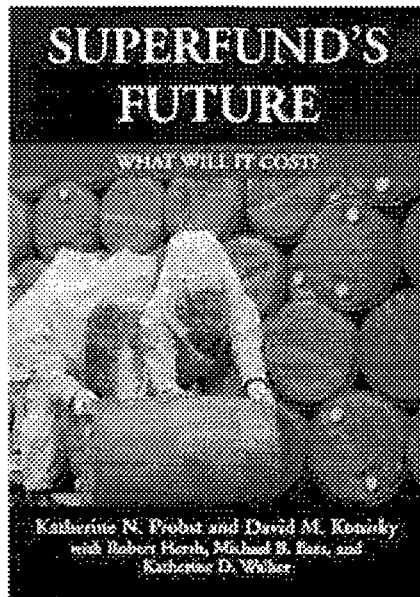


RESOURCES FOR THE FUTURE



Library

8 0 0 K



Superfund's Future: What Will It Cost?

Katherine N. Probst and David M. Konicki
with Robert Hersh, Michael B. Batz, and
Katherine D. Walker

July 2001 | 328 pages | Paper, ISBN
1-891853-39-2 | Price \$16.95

Ordering Information

FROM THE BOOK:
Table of Contents

Executive Summary (89 KB)
Glossary of Terms (50 KB)
Selected Tables and Figures

ADVANCE PRAISE FOR *SUPERFUND'S FUTURE*

"The most important study ever undertaken about the future of Superfund."

— Timothy Fields, Jr., former Assistant Administrator, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency

"The most thorough examination of the future of the Superfund program. Required reading for anyone with an interest in this complex environmental issue."

— Karen Florini, senior attorney, Environmental Defense

ABOUT THE BOOK:

Press Release

EPA Press Release about RFF Study

Praise
Description
The Authors

BRIEF DESCRIPTION

Reauthorization of the Superfund law continues to be a major source of controversy



10765409

8/27/2001 3:59 PM

among political leaders and environmental activists. Some seek a major overhaul of the statute, arguing that considerable cleanup still needs to be done. Others oppose major changes, asserting that cleanup is almost complete. One of the most contentious issues in the debate is whether the taxes that once stocked the Superfund Trust Fund need to be reinstated. The answer depends in large part on how much money EPA will need to implement the Superfund program. To inform this discussion, the U.S. Congress asked Resources for the Future (RFF) to estimate the program's future costs. The results of this research are included in *Superfund's Future*, a book that will become an essential reference for all participants in the debate about one of the nation's most controversial environmental programs.

ABOUT THE AUTHORS

Katherine N. Probst is a senior fellow at Resources for the Future. She is the coauthor of *Footing the Bill for Superfund Cleanups: Who Pays and How?*, *Long-Term Stewardship and the Nuclear Weapons Complex: The Challenge Ahead*, and *The Evolution of Hazardous Waste Programs: Lessons from Eight Countries*.

David M. Konisky is a research associate at Resources for the Future. His recent work has been published in *The Journal of Policy Analysis and Management*.

Also contributing to *Superfund's Future* are RFF fellow Robert Hersh, research assistant Michael B. Batz, and consultant Katherine D. Walker.

TABLE OF CONTENTS

Executive Summary

Chapter One	Introduction
Chapter Two	The Removal Program
Chapter Three	The Remedial Program and the Current National Priorities List
Chapter Four	Post-Construction Activities
Chapter Five	The Size and Composition of the Future National Priorities List
Chapter Six	Superfund Support Activities and Programs
Chapter Seven	The Future Cost of Superfund: FY 2000 through FY 2009

Appendix A	EPA Regional Offices
Appendix B	FY 2000 Status of 52 Sites Proposed to the NPL as of the End of FY 1999
Appendix C	Data Sources
Appendix D	RFF Data Collection

- Appendix E** Interviews Regarding Future NPL Sites
Appendix F Building Blocks of the RFF Future Cost Model
Appendix G The RFF Future Cost Model
Appendix H Supplementary Table of Results

Abbreviations and Acronyms

Glossary of Terms

Index

SELECTED TABLES AND FIGURES

..... **RFF**

The following graphics are from Superfund's Future: What Will it Cost?, © 2001, Resources for the Future

Please DO NOT DUPLICATE without attribution.

Composition of the NPL

Table 3-1 Status and Category of NPL Sites, End of FY 1999

Table D-1 Mega Sites on the Current NPL by Region, End of FY 1999

Figure 3-1 NPL Sites by Site Type

Figure 5-2 Sites Listed as Final on NPL, FY 1983-FY 2000

Figure 5-3 Mega Sites Listed as Final on NPL, FY 1983-FY 2000

Background Information

Six Program Cost Elements

Table 3-2 Comparison of Leads for Remedial Pipeline Actions by Time Period (Percentage)

Table 3-3 Unit Costs of Remedial Pipeline Actions (at Operable Unit Level) by Site Category (1999\$)

Table 3-4 Extramural Unit Costs of Remedial Pipeline Actions (at Operable Unit Level) at Nonmega Sites by Site Type (1999\$)

Table 5-4 RFF Future NPL Scenarios, FY 2001-FY 2009

Table 7-1 Summary of Remedial Pipeline Actions at Mega Sites on Current NPL, End of FY99

Table 7-2 Summary of Remedial Pipeline Actions at Nonmega Sites on Current NPL, End of FY 1999

Figure 3-2 Comparison of EPA and RFF Durations of Remedial Pipeline Phases

Results

Table 7-4 Estimated Total Annual Cost to EPA of Superfund Program: Base Case, FY 2000-FY 2009 (1999\$)

Table 7-5 Estimated Total Cost to EPA of Superfund program: Three Scenarios, FY 2000 - FY 2009 (Millions of Dollars)

Table H-2 Estimated Cumulative Number of Construction-Complete Sites on Current NPL, FY 1999 - FY2009

Table H-8 Estimated Total Annual Cost to EPA of Superfund Program: Three Scenarios, FY 2000 - FY 2009 (1999\$)

Table H-9 Estimated Total Annual Cost to EPA of Superfund Program: Three

Scenarios, FY 2000 - FY 2009 (Inflation-Adjusted Dollars)

Figure 7-3 Estimated Cost of Fund-Lead Actions at Current NPL Sites: Base Case, FY 2000 - FY 2009 (1999\$ and Inflation-Adjusted Dollars)

Figure 7-4 Estimated Cost of Fund-Lead Actions at Current NPL Sites: Three Scenarios, FY 2000 - FY 2009 (1999\$)

Figure 7-5 Estimated Cost of Fund-Lead Actions at Future NPL Sites: Three Scenarios, FY 2000 - FY 2009 (1999\$)

Figure 7-7 Estimated Cost of Fund-Lead Actions at Current and Future NPL Sites: Three Scenarios, FY 2000 - FY 2009 (1999\$)

Figure 7-11 Estimated Total Annual Cost to EPA of Superfund program: Three Scenarios, FY 2000 - FY 2009 (1999\$)

The above graphics are from Superfund's Future: What Will it Cost?, © 2001, Resources for the Future.

Please DO NOT DUPLICATE without attribution.

library reference desk



home

Table D-1. Mega Sites on the Current NPL by Region, End of FY 1999

Region 1 (7) <ul style="list-style-type: none"> • Baird & McGuire, MA • Industri-Plex, MA • New Bedford, MA • Nyanza Chemical Waste Dump, MA • Raymark Industries, Inc., CT • Silresim Chemical Corp., MA • Wells G&H, MA 	Region 4 (1) <ul style="list-style-type: none"> • Interstate Lead Company (ILCO), AL
Region 2 (20) <ul style="list-style-type: none"> • American Cyanamid, Co., NJ • Bridgeport Rental and Oil Services, NJ • Ciba-Geigy Corp. (Toms River), NJ • Diamond Alkali Co., NJ • Federal Creosote, NJ • GEMS Landfill, NJ • General Motors (Central Foundry Division), NY • Glen Ridge Radium, NJ • Helen Kramer Landfill, NJ • Hooker (Hyde Park), NY • Hooker (S Area), NY • Hudson River PCBs, NY • Lipari Landfill, NJ • Love Canal, NY • Marathon Battery Corp., NY • Montclair/West Orange Radium, NJ • Onondaga Lake, NY • U.S. Radium, Corp., NJ • Vega Baja Solid Waste Disposal, Puerto Rico • Vineland Chemical Company, Inc., NJ 	Region 5 (14) <ul style="list-style-type: none"> • Allied Chemical & Ironton Coke, OH • Allied Paper/Portage Creek/Kalamazoo River, MI • American Chemical Services, Inc., IN • Big D Campground, OH • Continental Steel Corp., IN • Kerr-McGee (Cress Creek/West Branch of DuPage River), IL • Kerr-McGee (Reed-Keppler Park), IL • Kerr-McGee (Residential Areas), IL • NL Industries/Taracorp Lead Smelter, IL • Ott/Story/Cordova Chemical Co., MI • Ottawa Radiation Areas, IL • Sheboygan Harbor & River, WI • Southeast Rockford Ground Water Contamination, IL • St. Louis River, MN
Region 3 (12) <ul style="list-style-type: none"> • Austin Avenue Radiation, PA • Avtex Fibers, Inc., VA • Drake Chemical, PA • E.I. DuPont De Nemours & Co. (Newport Landfill), DE • Fike Chemical, Inc., WV • Heleva Landfill, PA • MW Manufacturing, PA • Palmerton Zinc Pile, PA • Saltville Waste Disposal Ponds, VA • Southern Maryland Wood Treating, MD • Tysons Dump, PA • Whitmoyer Laboratories, PA 	Region 6 (14) <ul style="list-style-type: none"> • Alcoa (Point Comfort)/Lavaca Bay, TX • AT&SF (Albuquerque), NM • Bayou Bonfouca, LA • Brio Refining, Inc., TX • Cleve Reber, LA • French, Ltd., TX • Geneva Industries/Fuhrmann Energy, TX • Hardage/Griner, OK • MOTCO, Inc., TX • Petro-Processors of Louisiana, Inc., LA • Sand Springs Petrochemical Complex, OK • Sikes Disposal Pits, TX • Tar Creek (Ottawa County), OK • Vertac, Inc., AR Region 7 (5) <ul style="list-style-type: none"> • Big River Mine Tailings/St. Joe Minerals Corp., MO • Cherokee County, KS • Hastings Ground Water Contamination, NE • Oronogo-Duenweg Mining Belt, MO • Times Beach, MO

Table D-1. continued

Region 8 (10)

- Anaconda Co. Smelter, MT
 - California Gulch, CO
 - Denver Radium, CO
 - Eagle Mine, CO
 - Lowry Landfill, CO
 - Milltown Reservoir Sediments, MT
 - Silver Bow Creek/Butte Area, MT
 - Summitville Mine, CO
 - Uravan Uranium Project (Union Carbide Corp.), CO
 - Whitewood Creek, SD
-

Region 9 (24)

- Aerojet General Corp., CA
 - Fairchild Semiconductor Corp (Mountain View), CA
 - Indian Bend Wash Area, AZ
 - Intel Corp. (Mountain View Plant), CA
 - Iron Mountain Mine, CA
 - J.H. Baxter & Co., CA
 - Litchfield Airport Area, AZ
 - McColl, CA
 - McCormick & Baxter Creosoting Co., CA
 - Montrose Chemical Corp., CA
-
- Motorola, Inc. (52nd Street Plant), AZ
 - Newmark Ground Water Contamination, CA
 - Omega Chemical Corp., CA
 - Operating Industries, Inc. Landfill, CA
 - Raytheon Corp., CA
 - San Fernando Valley (Area 1), CA
 - San Fernando Valley (Area 2), CA
 - San Gabriel Valley (Area 1), CA
 - San Gabriel Valley (Area 2), CA
 - San Gabriel Valley (Area 4), CA
 - Southern California Edison Co. (Visalia Poleyard), CA
 - Stringfellow, CA
 - Sulphur Bank Mercury Mine, CA
 - Tucson International Airport Area, AZ
-

Region 10 (5)

- Bunker Hill Mining & Metallurgical Complex, ID
 - Commencement Bay-Nearshore Tidelands, WA
 - Commencement Bay-South Tacoma Channel, WA
 - Western Processing Co., Inc., WA
 - Wyckoff Co./Eagle Harbor, WA
-

Table D-1. Mega Sites on the Current NPL by Region, End of FY 1999

Region 1 (7) <ul style="list-style-type: none"> • Baird & McGuire, MA • Industri-Plex, MA • New Bedford, MA • Nyanza Chemical Waste Dump, MA • Raymark Industries, Inc., CT • Silresim Chemical Corp., MA • Wells G&H, MA 	Region 4 (1) <ul style="list-style-type: none"> • Interstate Lead Company (ILCO), AL
Region 2 (20) <ul style="list-style-type: none"> • American Cyanamid, Co., NJ • Bridgeport Rental and Oil Services, NJ • Ciba-Geigy Corp. (Toms River), NJ • Diamond Alkali Co., NJ • Federal Creosote, NJ • GEMS Landfill, NJ • General Motors (Central Foundry Division), NY • Glen Ridge Radium, NJ • Helen Kramer Landfill, NJ • Hooker (Hyde Park), NY • Hooker (S Area), NY • Hudson River PCBs, NY • Lipari Landfill, NJ • Love Canal, NY • Marathon Battery Corp., NY • Montclair/West Orange Radium, NJ • Onondaga Lake, NY • U.S. Radium, Corp., NJ • Vega Baja Solid Waste Disposal, Puerto Rico • Vineland Chemical Company, Inc., NJ 	Region 5 (14) <ul style="list-style-type: none"> • Allied Chemical & Ironton Coke, OH • Allied Paper/Portage Creek/Kalamazoo River, MI • American Chemical Services, Inc., IN • Big D Campground; OH • Continental Steel Corp., IN • Kerr-McGee (Cress Creek/West Branch of DuPage River), IL • Kerr-McGee (Reed-Keppler Park), IL • Kerr-McGee (Residential Areas), IL • NL Industries/Taracorp Lead Smelter, IL • Ott/Story/Cordova Chemical Co., MI • Ottawa Radiation Areas, IL • Sheboygan Harbor & River, WI • Southeast Rockford Ground Water Contamination, IL • St. Louis River, MN
Region 3 (12) <ul style="list-style-type: none"> • Austin Avenue Radiation, PA • Avtex Fibers, Inc., VA • Drake Chemical, PA • E.I. DuPont De Nemours & Co. (Newport Landfill), DE • Fike Chemical, Inc., WV • Heleva Landfill, PA • MW Manufacturing, PA • Palmerton Zinc Pile, PA • Saltville Waste Disposal Ponds, VA • Southern Maryland Wood Treating, MD • Tysons Dump, PA • Whitmoyer Laboratories, PA 	Region 6 (14) <ul style="list-style-type: none"> • Alcoa (Point Comfort)/Lavaca Bay, TX • AT&SF (Albuquerque), NM • Bayou Bonfouca, LA • Brio Refining, Inc., TX • Cleve Reber, LA • French, Ltd., TX • Geneva Industries/Fuhrmann Energy, TX • Hardage/Criner, OK • MOTCO, Inc., TX • Petro-Processors of Louisiana, Inc., LA • Sand Springs Petrochemical Complex, OK • Sikes Disposal Pits, TX • Tar Creek (Ottawa County), OK • Vertac, Inc., AR
	Region 7 (5) <ul style="list-style-type: none"> • Big River Mine Tailings/St. Joe Minerals Corp., MO • Cherokee County, KS • Hastings Ground Water Contamination, NE • Oronogo-Duenweg Mining Belt, MO • Times Beach, MO

Table D-1. continued

Region 8 (10)

- Anaconda Co. Smelter, MT
 - California Gulch, CO
 - Denver Radium, CO
 - Eagle Mine, CO
 - Lowry Landfill, CO
 - Milltown Reservoir Sediments, MT
 - Silver Bow Creek/Butte Area, MT
 - Summitville Mine, CO
 - Uranium Project (Union Carbide Corp.), CO
 - Whitewood Creek, SD
-

Region 9 (24)

- Aerojet General Corp., CA
 - Fairchild Semiconductor Corp (Mountain View), CA
 - Indian Bend Wash Area, AZ
 - Intel Corp. (Mountain View Plant), CA
 - Iron Mountain Mine, CA
 - J.H. Baxter & Co., CA
 - Litchfield Airport Area, AZ
 - McColl, CA
 - McCormick & Baxter Creosoting Co., CA
 - Montrose Chemical Corp., CA
-
- Motorola, Inc. (52nd Street Plant), AZ
 - Newmark Ground Water Contamination, CA
 - Omega Chemical Corp., CA
 - Operating Industries, Inc. Landfill, CA
 - Raytheon Corp., CA
 - San Fernando Valley (Area 1), CA
 - San Fernando Valley (Area 2), CA
 - San Gabriel Valley (Area 1), CA
 - San Gabriel Valley (Area 2), CA
 - San Gabriel Valley (Area 4), CA
 - Southern California Edison Co. (Visalia Poleyard), CA
 - Stringfellow, CA
 - Sulphur Bank Mercury Mine, CA
 - Tucson International Airport Area, AZ
-

Region 10 (5)

- Bunker Hill Mining & Metallurgical Complex, ID
 - Commencement Bay-Nearshore Tidelands, WA
 - Commencement Bay-South Tacoma Channel, WA
 - Western Processing Co., Inc., WA
 - Wyckoff Co./Eagle Harbor, WA
-



Victor Hull
<vicmelhal@peoplepc.
com>

To: Brad Jackson/R4/USEPA/US@EPA

cc:

08/27/2001 02:34 PM Subject: subdivisions

Brad,

I'm not at my regular terminal so I'm unable to attach the full stories. However, I wanted to give you the names of some existing and proposed developments on former mine sites. I'll try to e-mail the stories later. The existing upscale subdivision (homes advertised in the \$300,000 range) in Lakeland is called Oakbridge. At the time I did the story in late 1999, these had been proposed, so I don't know what their status is today: Old Florida Plantation, a large development on a former mine at the southern end of Lake Hancock. Saddle Creek, another Development of Regional Impact-size project just south of Interstate 4. And another project is called Bridgewater. All three are on sites for which the state used nonmandatory reclamation funds to help reclaim. Both the Old Florida Plantation and Saddle Creek were at least 2,000 acres or more.

My regular e-mail is victor.hull@herald-trib.com.

Victor

PeoplePC: It's for people. And it's just smart.
<http://www.peoplepc.com>